

M2M & Smart Metering

Tixi Alarm & Data Gateways

GSM, GPRS, UMTS, LTE, LAN, WLAN



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Overview Tixi.Gate

Communication Modules

LAN HE600	GSM/GPRS/EDGE HG600	UMTS HU600	LTE HT600
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CPU System B600

Serie	600
CPU	400 MHz
RAM	128 MB
Flash Memory	128 MB
SD-Card Slot	max 32 GB
CPU Type	ARM9
Operating system	Linux



Hutline Models

HE-/ HG-/ HU-/ HT-	LAN	RS232	RS485	DI	DO	AI	Relais	Other
621	1	2	-	-	-	-	-	-
627	1	2	-	2	2	1	1	-
630	1	2	-	12	-	1	-	-
632	1	2	-	8	2	1	-	-
634	1	2	-	4	4	1	-	-
641	1	1	1	-	-	-	-	-
647	1	1	1	2	2	1	1	-
671	1	1	-	-	-	-	-	Siemens S7-300/400 MPI*
623-Mx	1	2	-	2	1	-	-	M-Bus 25/60/100
643-Mx	1	1	1	2	1	-	-	M-Bus 25/60/100

I/O Modules

XP84D	-	-	-	8	4	-	-	-
XP88D	-	-	-	8	8	-	-	-
XP84DR	-	-	-	8	-	-	4	-
XS-Module	Further information about possible combinations on page 7							

Technical Data

Case	5TE, dimensions: W×H×D 88×57×91 mm, safety class IP20, weight: ca. 225 g
Temperature range	Operation: -25...+85°C, Storage: -30...+80°C
Power supply	10...30 V DC, M-Bus: 18...30 V DC
Inputs	digital: potential free analog: 0...10 V DC, 12 Bit
Outputs	digital: potential free, AC/DC 125 V, 120 mA relay: 230 V AC, 3A

Overview Wand.Box

Communication Modules

LAN	GSM/GPRS/EDGE	UMTS	LTE
WE600 / WE500	WG600 / WG500	WU600 / WU500	WT600 / WT500

CPU System B600

Serie	600
CPU	400 MHz
RAM	128 MB
Flash Memory	128 MB
microSD-Card Slot	max 32 GB
USB Host	1 x for Memory/WiFi Stick
CPU Type	ARM9
Operating system	Linux



Wand.Box Models

WE-/ WG-/ WU-/ WT-	LAN	RS232	RS485	DI	DO	AI	AO	Relay	Pt1000	S0	1-Wire	M-Bus
550	1	1	1	2	1	-	-	-	-	3	10	25
640	1	1	1	2	-	-	-	2	-	-	30	50/100
660	1	1	1	2	-	2	2	2	2	3	30	50/100

Available slots for S1 modules: Wx550 / Wx660: 1 slot, Wx640: 5 slots

S1-Modules

D50	-	-	-	5	-	-	-	-	-	-	-	-
D05	-	-	-	-	5	-	-	-	-	-	-	-
D03G	-	-	-	-	3	-	-	-	-	-	-	-
AE3	-	-	-	-	-	3	-	-	-	-	-	-
PT3	-	-	-	-	-	-	-	-	3	-	-	-
AA2	-	-	-	-	-	-	2	-	-	-	-	-
WL2	-	-	-	-	-	-	-	2	-	-	-	-
S03	-	-	-	-	-	-	-	-	-	3	-	-

Technical Data

Case	Wall mounting via über screw holes, Wx600: 262 mm x 60 mm x 170 mm, 1,3 kg, Wx500: 231 mm x 60 mm x 158 mm, 0,72 kg,
Temperature range	Operation: -25° ...+75° C
Power supply	100 ... 240 V AC, 50..60 Hz

Tixi.Gate LAN, GSM, UMTS, LTE

M2M Machine-to-Machine		HU	HG	HE
Hx621	Tixi.Gate LAN / GSM + 2x RS232 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × RS232-F, 1 × RS232-M, 1 × RJ45	700 €	640 €	580 €
Hx627	Tixi.Gate LAN / GSM + 2x RS232 + 6 I/Os + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × RS232-F, 1 × RS232-M, 1 × RJ45 2 × digital inputs, 2 × digital outputs, 1 × analog inputs, 1 × relay	760 €	700 €	640 €
Hx641	Tixi.Gate LAN / GSM + RS485/422 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × RS485, 1 × RS232-F, 1 × RJ45	740 €	680 €	620 €
Hx647	Tixi.Gate LAN / GSM + RS485/422 + 6 I/Os + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × RS485, 1 × RS232-F, 1 × RJ45 2 × digital inputs, 2 × digital outputs, 1 × analog input, 1 × relay	800 €	740 €	680 €
Smart Metering		HU	HG	HE
Hx623-M25	Tixi.Gate LAN / GSM + M-Bus 25 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory,	780 €	720 €	700 €
Hx623-M60	1 × M-Bus (M25 / M60 / M100) 1 × RS232-F, 1 × RS232-M, 1 × RJ45	980 €	920 €	900 €
Hx623-M100	2 × digital inputs, 1 × digital outputs	1080 €	1020 €	1000 €
Hx643-M25	Tixi.Gate LAN / GSM + M-Bus 25 + RS485 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory,	820 €	760 €	740 €
Hx643-M60	1 × M-Bus (M25 / M60 / M100) 1 × RS232-F, 1 × RS485, 1 × RJ45	1020 €	960 €	940 €
Hx643-M100	2 × digital inputs, 1 × digital outputs	1120 €	1060 €	1040 €
Tixi.Gate – I/O		HU	HG	HE
Hx630	Tixi.Gate LAN / GSM + 2x RS232 + E12A0 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × RS232-F, 1 × RS232-M 12 × digital inputs, 1 × analog outputs	840 €	780 €	720 €
Hx632	Tixi.Gate LAN / GSM + 2x RS232 + E8A2 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × RS232-F, 1 × RS232-M 8 × digital inputs, 2 × digital outputs, 1 × analog inputs	840 €	780 €	720 €
Hx634	Tixi.Gate LAN / GSM + 2x RS232 + E4A4 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × RS232-F, 1 × RS232-M 4 × digital inputs, 4 × digital outputs, 1 × analog inputs	840 €	780 €	720 €
Tixi.Gate – S7 Siemens MPI		HU	HG	HE
Hx671	Tixi.Gate LAN / GSM + MPI + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × MPI (DSUB9-F), 1 × RS232-F	840 €	780 €	720 €

Tixi.Gate LAN, GSM, UMTS, LTE with WiFi-Option

Standard models

Tixi.Gate – I/O		HU	HG	HE
Hx651	Tixi.Gate USB + LAN / GSM + 2x RS232 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × RS232-M, 1 × RS485, 1 × RJ45, 1x USB 1 × digital input	€	€	€

Smart Metering		HU	HG	HE
Hx653-M25	Tixi.Gate USB + LAN / GSM + M-Bus 25 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory,	€	€	€
Hx653-M60	1 × M-Bus (M25 / M60 / M100) 1 × RS232-F, 1 × RS485, 1 × RJ45, 1x USB	€	€	€
Hx653-M100	1 × digital input	€	€	€

Special models

Tixi.Gate – I/O		HU	HG	HE
Hx652	Tixi.Gate USB + LAN / GSM + 2x RS232 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory, 2 × RS485, 1 × RJ45, 1x USB 1 × digital input	€	€	€

Smart Metering		HU	HG	HE
Hx654-M25	Tixi.Gate USB + LAN / GSM + M-Bus 25 + SD 400 MHz, SD-Card Slot (max. 32 GB) 128 MB Flash Memory,	€	€	€
Hx654-M60	1 × M-Bus (M25 / M60 / M100) 2 × RS485, 1 × RJ45, 1x USB	€	€	€
Hx654-M100	1 × digital input	€	€	€
Hx655-M05	Tixi.Gate USB + LAN / GSM + M-Bus 5 400 MHz, 128 MB Flash Memory, 1 × M-Bus (M05) 1 × RJ45, 1x USB	€	€	€

LTE models HT600 : HU price + 120 €



Tixi Wand.Box LAN, GSM, UMTS, LTE

Tixi Wand.Box 500 series		WU	WG	WE
Wx550	Tixi Wand.Box LAN / GSM WG550 400 MHz, microSD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × M-Bus (M25) 1 × RS232, 1 × RS485, 1 × RJ45 USB for Memory Stick (max. 32 GB) + WiFi integrated power supply 110/230 V internal 1-Wire temperature sensor external 1-Wire sensors: max. 10 2 × digital inputs 24 V DC 1 × digital output 125 V AC/DC, 120 mA 3 × S0 pulse inputs 1 × free slot for S1 modules	780 €	720 €	640 €



Tixi Wand.Box 600 series		WU	WG	WE
Wx640	Tixi Wand.Box LAN / GSM WG640 400 MHz, microSD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × M-Bus (M50 / M100) 1 × RS232, 1 × RS485, 1 × RJ45 USB for Memory Stick (max. 32 GB) + WiFi integrated power supply 110/230 V external 1-Wire sensors: max. 30 2 × relays 230 V, 5 A 2 × digital inputs 90-230 V AC 1-Wire sensors: max. 30 5 × free slots for S1 modules	860 €	800 €	720 €
Wx640-M100		1020 €	960 €	880 €
Wx660	Tixi Wand.Box LAN / GSM WG660 400 MHz, microSD-Card Slot (max. 32 GB) 128 MB Flash Memory, 1 × M-Bus (M50 / M100) 1 × RS232, 1 × RS485, 1 × RJ45 USB for Memory Stick (max. 32 GB) + WiFi integrated power supply 110/230 V external 1-Wire sensors: max. 30 2 × relays 230 V, 5 A 2 × digital inputs 90-230 V AC 1-Wire sensors: max. 30 2 × analog inputs 0-20 mA / 0-10 V 2 × analog outputs 0-20 mA / 0-10 V 3 × S0 pulse inputs 2 × PT1000 temperature sensor inputs 1 × free slot for S1 modules	1000 €	940 €	860 €
Wx660-M100		1160 €	1100 €	1020 €



LTE models HT600 : HU price + 120 €

I/O modules

Pre-equipped XP modulea

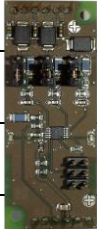

XP84D	I/O module XP84D 8 digital inputs, 4 digital outputs		120 €
XP88D	I/O module XP88D 8 digital inputs, 8 digital outputs		160 €
XP84DR	I/O module XP84DR 8 digital inputs, 4 relays		160 €

Tixi.Gates can be expanded with up to 8 I/O modules on up to 140 I/Os.

XS modules

XS00	Tixi Hut Line 2xS1 Base Module 2 slots for S1 plug-in modules for use with Tixi.Gate series (Hutline)		80 €
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S1 expansion modules for use with Wand.Box series or XS modules

S1-D50	I/O module S1-D50 5 digital inputs		92 €
S1-D05	I/O module S1-D05 5 digital outputs		92 €
S1-D03G	I/O module S1-D03G 3 digital outputs, galvanically isolated		92 €
S1-AE3	I/O module S1-AE3 3 analog inputs 4 - 20mA / 0 - 10V		92 €
S1-PT3	I/O module S1-PT3 3 Pt-1000 temperature sensor inputs		120 €
S1-AA2	I/O module S1-AA2 2 analog outputs 4 - 20mA / 0 - 10V		120 €
S1-WL2	I/O module S1-WL2 2 relays 230 V, 3 A		120 €
S1-S03	I/O module S1-S03 3 S0 pulse inputs		120 €

Software, Project creation, Training & Consulting

Software

Single workstation licenses

TICOLA-DL	Software Bundle TICOLA-DL Windows configuration software for Tixi.Gate GSM/UMTS/LTE. In an address book (SMS, Fax, Email, Express E-Mail) the Messages of the recipients and data can be saved. The Alarming-Messages, the recipients, the alarms and remote maintenance commands can be configured in few mouse clicks. The PLC-Type, Variables, I/O-Ports and Register will be selected. Easy configuration of Data Logging. Time-Controlled Logging (for example every 15 minutes) Process-Controlled Logging for example (I/O-Ports, PLC-Variables) Data as Excel-file (CSV), Time-Controlled, for example 24/7 at 02:00 AM. Comfortable access to all features of the Tixi Alarm Modem based upon TiXML. This software allows advanced user to view/edit the TiXML source code and customize to your own or your customers' requirements. Features: Project administration, databases, address books, text editor, process variables and events. TiXML-syntax-check, Log files.	500 €
TICOLANET	Software Bundle TICOLANET Like TICOLA-DL, but for Tixi.Gate LAN.	500 €
OEM-TILA	TILA2-OEM Customized screen surface design, menus and functions.	Upon request

Project creation

DS-PRO	Project creation by TILA, TICO oder TiXML, depending on effort	From 300 €
DS-WS	Website creation for Visualization and Setting the Modem-/ PLC-Variables and meter data	Upon request
DS-SUP	Technical support	Upon request

Training and consulting

DS-WORK	Tixi Workshop (2 days) Individual customized workshop. We help to find the ideal way to use Tixi Devices. We show you possibilities to process data online. The workshop will be prepared by a customers list of requirements. By request we will prepare a first draft of the customer's requirements.	2.500 €
DS-TIXML2	TILA2-, TICO-, TiXML-Training (2 days) Individual training based on customer's desire. Learn all functions of Tixi modems: from alarming to scheduler. Afterwards with this training you'll have no questions anymore!	2.000 €
DS-TILA1	TILA2-Training 'on the Job' (1 day) Training for common standard applications of Tixi Alarm Modem with TILA und your PLC: We realize your custom project in this training together with you!	1.000 €
DS-DEV	Tixi Entwickler-Training (1 day) Learn how to implement your own features, protocols and functions in the Tixi System! Recommendation: 2 days	1.200 €

Acessoires

Antennas and WiFi

ZA-DE-0DB	Folding antenna 0 dB Dualband 900/1800 MHz, FME	25 €
ZA-DE-5DB	Magnet-base antenna 5dB Dualband 900/1800 MHz, FME, 3,5m cable, height ca. 45 cm	32 €
ZW-R1-SR 10	WiFi USB Stick Tixi For remote configuration access, range: ca. 10m, temp.: 0 – 40 °	48 €

Netzteile

ZP-DC24-2A	Power supply 24V 48W 4TE with Status-LED; input 100-240V AC, 50/60Hz output: 24V DC, 2A, 48W	48 €
ZP-DC24-10W	Power supply 24V 10W 1TE with Status-LED; input 100-240V AC, 47/63Hz output: 24V DC, 0.42A, 10W	58 €

RS232 adapter and cables

ZK-R9M9F180	RS232 cable D-Sub-9 male-D-Sub-9 female, lenght=180 cm, 1:1 (this is not a null modem cable !)	8 €
3K-RS23210-FB	RS232 adapter cable D-Sub-9 male-D-Sub-9 female, ribbon cable, lenght=10 cm, 1:1 (this is not a null modem cable !)	16 €
ZK-BA	Tixi.Com Blue adapter Slim-Line null modem adapter RS232 D-Sub-9 plug / plug	12 €
ZK-RA	Tixi.Com Red adapter Slim-Line null modem adapter RS232 D-Sub-9 jack / jack	12 €
ZK-BRA	Tixi.Com Brown adapter Slim-Line adapter for Mitsubishi MELSEC FX/BD Board or S7-200 to COM1 of a Tixi device. D-Sub-9 jack / plug	12 €

Manuals

ZM-MANSET	TiXML manual set TiXML-Reference-Manual, TiXML-Tutorial, PLC manual, TILA2 manual, as hard copy and on USB-Stick	50 €
ZM-WORKSET	Training documents Detailed Training Documents for configuring Tixi devices and Web Server incl. TiXML Manual Set, as hardcopy and on USB-Stick	100 €

All manuals are available free of charge in digital form.

OEM models

Tixi models can be customized according to customer wishes:

- Type of case and color
- Labeling
- Hardware interfaces
- Firmware
- Web-Apps



Ordering information

Please send us your order via E-Mail: Sales@Tixi.Com
As an alternative you can use the fax: +49-30-40608-400

You're not sure if Tixi devices are compatible to your application? Please contact us!
A qualified team of consultants will help you:

Phone: +49-30-40608-300
E-Mail: Sales@Tixi.Com
Internet: www.Tixi.Com

Delivery times

Standard devices are in small quantities on stock.
The delivery takes usually 5 days.
If you need a faster delivery (**up to 5 devices**), we have several options:

Surcharge for express delivery	Delivery code:	Surcharge:
1 day (same day if possible)	E1	100 €
2 days	E2	50 €
3 days	E3	20 €

Pricing

All prices are in € plus VAT.
Prices are valid from **01.07.2016**.
All previous prices are no longer valid.

Delivery

The delivery is ex works. Additional costs for postage, packing and insurance.

Terms of payment

Prepayment on first or foreign order, otherwise 10 days netto.

Bank details

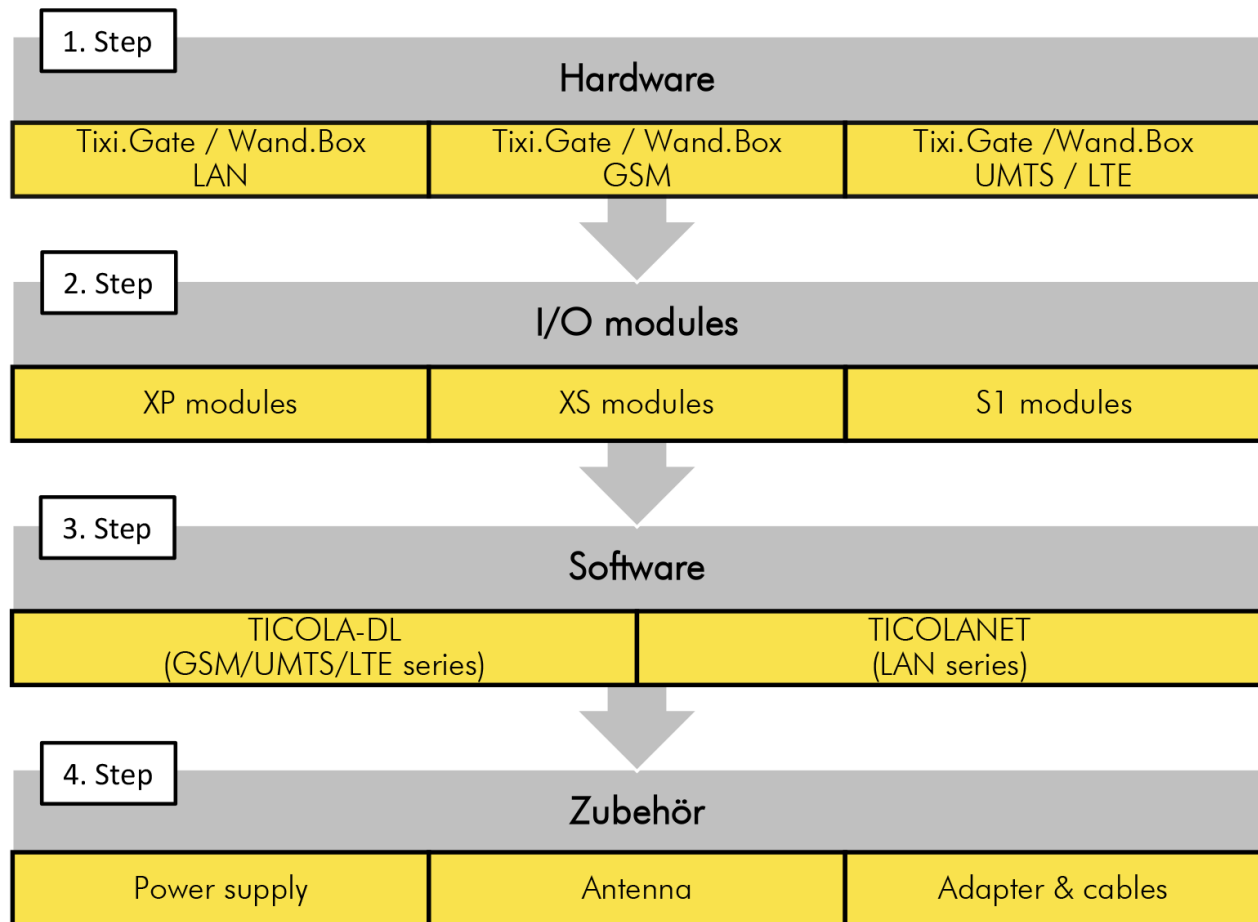
Institute	Berliner Volksbank eG
Account No.	255 124 4000
BLZ	100 900 00
BIC or Swift-Code	BE VO DE BB
IBAN	DE53 1009 0000 2551 2440 00
VAT-IdNr.:	DE298 999 523

Address

Tixi.Com GmbH & Co. KG
Karmeliterweg 114
13465 Berlin

Technical and measurement changes as well as misprints in graphic or writing reserved.

Order – How to



Example of order

Tixi.Gate GSM + RS485/422 + SD + Siemens S7-200 SPS

1× HG641	Tixi.Gate GSM + 1× RS232 und 1× RS485-SPS	680 €
1× TICOLA-DL	Software Bundle TICOLA-DL	500 €
1× ZK-R9M9F180	RS232 cable	8 €
1× ZP-DC24-2A	230V / 24V power supply	48 €
1× ZA-DE-5DB	Magnet-base antenna 5dB	32 €
Total		1268 €

Tixi.Gate LAN + 2x RS232 + SD + Moeller Easy SPS

if configuration software TICOLA-DL or TICOLANET present

1× HE621	Tixi.Gate LAN + 2x RS232 + SD	580 €
1× ZP-DC24-2A	230V / 24V Power supply	48 €
Total		628€

Price overview

	Tixi.Gate LAN	Tixi.Gate GSM	Tixi.Gate UMTS	Tixi.Gate LTE
Flash Memory	128 MB	128 MB	128 MB	128 MB
SD-Card Slot	✓ (max. 32 GB)	✓ (max. 32 GB)	✓ (max. 32 GB)	✓ (max. 32 GB)

M2M Machine-to-Machine

2x RS232	HE621	580 €	HG621	640 €	HU621	700 €	HT621	820 €
2x RS232, 6x I/Os	HE627	640 €	HG627	700 €	HU627	760 €	HT627	880 €
2x RS232, 13x I/Os	HE630	720 €	HG630	780 €	HU630	840 €	HT630	960 €
1x RS232, 1x RS485	HE641	620 €	HG641	680 €	HU641	740 €	HT641	860 €
1x RS232, 1x RS485	HE651	€	HG651	€	HU651	€	HT651	€
2x RS485	HE652	€	HG652	€	HU652	€	HT652	€
1x RS232, 1x RS485, 6x I/Os	HE647	680 €	HG647	740 €	HU647	800 €	HT647	920 €
1x RS232, 1x MPI	HE671	720 €	HG671	780 €	HU671	840 €	HT671	960 €

Smart Metering

M-Bus 25 +2x RS232	HE623-M25	700 €	HG623-M25	720 €	HU623-M25	780 €	HT623-M25	900 €
M-Bus 60 +2x RS232	HE623-M60	900 €	HG623-M60	920 €	HU623-M60	980 €	HT623-M60	1.100 €
M-Bus 100 +2x RS232	HE623-M100	1.000 €	HE623-M100	1.020 €	HU623-M100	1.080 €	HT623-M100	1.200 €

M-Bus 25 +1xRS485,1xRS232	HE643-M25	740 €	HG643-M25	760 €	HU643-M25	820 €	HT643-M25	940 €
M-Bus 60 +1xRS485,1xRS232	HE643-M60	940 €	HG643-M60	960 €	HU643-M60	1.020 €	HT643-M60	1.140 €
M-Bus 100 +1xRS485,1xRS232	HE643-M100	1.040 €	HG643-M100	1.060 €	HU643-M100	1.120 €	HT643-M100	1.240 €

Smart Metering mit WiFi

M-Bus 25 +1xRS485,1xRS232	HE653-M25	€	HG653-M25	€	HU653-M25	€	HT653-M25	€
M-Bus 60 +1xRS485,1xRS232	HE653-M60	€	HG653-M60	€	HU653-M60	€	HT653-M60	€
M-Bus 100 +1xRS485,1xRS232	HE653-M100	€	HG653-M100	€	HU653-M100	€	HT653-M100	€

	Tixi Wand.Box LAN	Tixi Wand.Box GSM	Tixi Wand.Box UMTS	Tixi Wand.Box LTE
Flash Memory	128 MB	128 MB	128 MB	128 MB
USB für Memory-/WiFi-Stick	✓ (max. 32 GB)	✓ (max. 32 GB)	✓ (max. 32 GB)	✓ (max. 32 GB)

W500-Serie

M-Bus 25, 1x S1-Slot	WE550	640 €	WG550	720 €	WU550	780 €	WT550	900 €
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W600-Serie

M-Bus 50, 5x S1-Slot	WE640	720 €	WG640	800 €	WU640	860 €	WT640	980 €
M-Bus 100, 5x S1-Slot	WE640-M100	880 €	WG640-M100	960 €	WU640-M100	1.020 €	WT640-M100	1.140 €
M-Bus 50, 1x S1-Slot	WE660	860 €	WG660	940 €	WU660	1.000 €	WT660	1.120 €
M-Bus 100, 1x S1-Slot	WE660-M100	1.020 €	WG660-M100	1.100 €	WU660-M100	1.160 €	WT660-M100	1.280 €

Software

Software-Bundle: TILA2-DL/TILANET + TICO	TICOLA-DL	500 €	TICOLANET	500 €
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Accessoires

Antenna	ZA-DE-5DB	32 €	ZA-DE-0DB	25 €
WiFi USB-Stick	ZW-RL1-SR 10	48 €		
Power supply 4TE	ZP-DC24-2A	48 €		
Power supply 1TE	ZP-DC24-10W	58 €		
RS232 cable	ZK-R9M9F180	8 €		
Manual- / Training-Set	ZM-MANSET	50 €	ZM-WORKSET	100 €